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NOTICE OF ALLOWANCE AND FEE(S) DUE

45601

7590

12/29/2009

SCULLY, SCOTT, MURPHY & PRESSER, P.C. 400 GARDEN CITY PLAZA Suite 300 GARDEN CITY, NY 11530

EXAMINER

NGUYEN, KHIEM D

ART UNIT PAPER NUMBER

2823 DATE MAILED: 12/29/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711.144	08/27/2004	Douglas D. Coolbaugh	BUR920040107US1	5143

TITLE OF INVENTION: MOS VARACTOR USING ISOLATION WELL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

indicated unless correct maintenance fee notifica	ed below or directed oth tions.	nerwise in Block 1, by (a	rders and notification of na) specifying a new corres					
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION N	Ο.
10/711,144	08/27/2004	•	Douglas D. Coolbaugh		BU	R920040107US1	5143	
TITLE OF INVENTION	I: MOS VARACTOR US	SING ISOLATION WELI	L					
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/29/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
NGUYEN,	, KHIEM D	2823	438-381000					
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1					
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 ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form 			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
		A TO BE PRINTED ON T	<u>I</u> ΓΗΕ PATENT (print or typ	pe)				
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assigne	ee is id	lentified below, the d	ocument has been file	ed for
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Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Co	rporati	on or other private gro	oup entity 🖵 Govern	ıment
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Issue Fee			A check is enclosed.					
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				7	
			overpayment, to Depo	sit Account Numbe	er	(enclose a	n extra copy of this fo	
5. Change in Entity Sta	itus (from status indicated in SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no long	ger claiming SMAI	L EN	FITY status. See 37 C	FR 1.27(g)(2).	
NOTE: The Issue Fee an	d Publication Fee (if req		d from anyone other than t	-				ırty in
Authorized Signature				Date				
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This collection of information is required by 37 CFR 1.311. The information				-				
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10/711,144	08/27/2004	Douglas D. Coolbaugh	BUR920040107US1	5143	
45601 75	590 12/29/2009		EXAM	INER	
SCULLY, SCOTT, MURPHY & PRESSER, P.C. 400 GARDEN CITY PLAZA Suite 300 GARDEN CITY, NY 11530			NGUYEN, KHIEM D		
			ART UNIT	PAPER NUMBER	
			2823 DATE MAILED: 12/29/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 145 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 145 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/711,144	COOLBAUGH ET AL.
Notice of Allowability	Examiner	Art Unit
	KHIEM D. NGUYEN	2823
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. X This communication is responsive to the RCE filed on Octo	ober 15 th , 2009.	
2. The allowed claim(s) is/are <u>1-3,6-9 and 12-14</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:	, . ,	or (f).
Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_	,
(b) including changes required by the attached Examiner's		r in the Office action of
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	94(a)) should be written on t	he drawings in the front (not the book) of
each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		summary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No. 7. ⊠ Examiner's	/Mail Date Amendment/Comment
Paper No./Mail Date4.	8. 🛛 Examiner's	Statement of Reasons for Allowance
of Biological Material	9.	<u>-</u> :
/Khiem D. Nguyen/	12/16/2009	
Primary Examiner, Art Unit 2823		

Art Unit: 2823

EXAMINER'S AMENDMENT

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on October 15th, 2009 has been entered.

- 2. Claims 1 and 9 have been amended. Accordingly, claims 1-3, 6-9, and 12-20 are pending in this application in which claims 15-20 have been withdrawn from further consideration as being drawn to non-elected invention.
- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:

In the claims:

This application is in condition for allowance except for the presence of claims 15-20 directed to non-elected invention without traverse. Accordingly, claims 15-20 have been cancelled.

Please cancel claims 15-20.

Allowable Subject Matter

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5. Claims 1-3, 6-9 and 12-14 are allowed over prior art of record.

Reasons For Allowance

6. The following is an examiner's statement of reasons for allowance:

After further search and consideration of Applicants' response filed on October 15th, 2009 (see Applicants' argument in Page 8, lines 9-20 of the October 15th, response), it is determined that the prior art of record neither anticipates nor renders obvious the claimed subject matter of the instant application as a whole either taken alone or in combination, in particular, prior art of record does not teach or suggest "wherein the outer well region and the inner well region each have an upper surface that includes a source and drain dopant regions, wherein the source and drain regions of the inner well regions are separated from the source and drain dopant regions of the outer well regions by the isolation region comprising a dielectric material" as cited in independent claim 1 and "wherein the outer N-well region and the inner P-well region each have an upper surface that includes source and drain dopant regions, wherein the source and drain dopant regions of the inner P-well regions are separated from the source and drain regions of the outer N-well regions by the isolation region comprising a dielectric material", as recited in independent claim 9.

Claims 2, 3, 6-8 and 12-14 are also allowed as being directly dependent of the allowed independent base claims.

7. Any comments considered necessary by applicant must be submitted no later

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than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Hull et al. (U.S. Patent 6,172,378) disclose an integrated circuit varactor structure that include either an P-gate/N-well or N-gate/P-well layer configuration formed on an SOI substrate.
 - Stolmeijer et al. (U.S. Patent 5,742,090) disclose an integrated circuit device has a plurality of active devices which are formed on a semiconductor body.

Correspondence

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khiem D. Nguyen whose telephone number is (571) 272-1865. The examiner can normally be reached on Monday-Friday (8:30 AM - 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2823

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Khiem D. Nguyen/ Primary Examiner, Art Unit 2823 December 16th, 2009